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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,191	06/20/2005	Sonja Salmon	10357.504-US	1166
	7590 08/21/200 NORTH AMERICA,	EXAMINER		
500 FIFTH AV		KHAN, AMINA S		
SUITE 1600 NEW YORK, NY 10110			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			08/21/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Patents-US-NY@novozymes.com

	Application No.	Applicant(s)
	10/540,191	SALMON ET AL.
Office Action Summary	Examiner	Art Unit
	AMINA KHAN	1796
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING DESTRICTION - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>08 €</u> 2a) This action is FINAL . 2b) This action is application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 62-72 and 85-89 is/are pending in the 4a) Of the above claim(s) is/are withdrases 5) Claim(s) is/are allowed. 6) Claim(s) 62-72 and 85-89 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Examination.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* * See the attached detailed Office action for a list.	nts have been received. Its have been received in Applicat Pority documents have been receive Tau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 8,

2009 has been entered.

2. Claims 62-72 and 85-89 are pending. Claims 1-61 and 73-84 have been

cancelled. Claims 85-89 are new. Claim 62 has been amended.

3. The rejection of claims 62-67,70-78,83 and 84 under 35 U.S.C. 103(a) as being

unpatentable over Baeck et al. (US 6,077,818) in view of Sando et al. (US 3,481,684) is

withdrawn in view of applicant's amendments to the claims.

4. Claims 68 and 69 stand rejected under 35 U.S.C. 103(a) as being unpatentable

over Baeck et al. (US 6,077,818) in view of Sando et al. (US 3,481,684) and further in

view of Schneider et al. (US 6,165,761) for the reasons set forth in the previous office

action.

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5. The rejection of claim 79 under 35 U.S.C. 103(a) as being unpatentable over

Baeck et al. (US 6,077,818) in view of Sando et al. (US 3,481,684) and further in view of

Sugio et al. (CA2444735) is withdrawn in view of applicant's cancellation of the claim.

6. The rejection of claims 80-82 under 35 U.S.C. 103(a) as being unpatentable over

Baeck et al. (US 6,077,818) in view of Sando et al. (US 3,481,684) and further in view of

Hage et al. (US 2003/0166485) is withdrawn in view of applicant's cancellation of the

claims.

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 62-72 and 85-89 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Baeck et al. (US 6,077,818) in view of Sando et al. (US 3,481,684)

and further in view of Schneider et al. (US 6,165,761).

Baeck et al. teach laundry detergent composition comprising oxidases and a

glucose substrate which may be utilized for hydrogen peroxide production by means of

glucose oxidase (column 8, lines 55-65) and water (see examples). Baeck et al. teach

that any reducing saccharide containing 5 or 6 carbon atoms can be used, e.g.,

glucose, galactose and galactosyl moieties can be substituted for the glucosyl moieties (column 11, lines 1-15). Baeck et al. teach treating cottons and other cellulosics (abstract; column 25, lines 20-65). Baeck et al. teach the pH of the treatment solution is preferably from 7 to 11, especially from 7.5 to 10.5, preferably between 9 to 10.5 (column 24, lines 2-4).

Baeck et al. do not specifically teach the concentration or origin of the carbohydrate oxidase, the concentration of the substrate and methods of desizing, scouring or post bleaching alkaline treatment.

Sando et al. teach it is conventional to desize scour, bleach and then alkaline treat cotton and cellulosic fabrics, wherein the alkaline treatment is carried out with hydrogen peroxide at pH about 9-11 and temperature of 85-90°C (column 3, lines 15-65).

Schneider et al. teach a novel carbohydrate oxidase having the capability to oxidize maltodextrins and cellodextrins more efficiently than glucose may be obtained from a strain of Microdochium, particularly M. nivale or a fungal source (column 4, lines 15-25 and 45-55; column 5, lines 5-10, column 12, lines 55-65). Schneider et al. further teach substrates such as maltooligosaccharides having a degree of polymerization of 2-6 specifically, maltose, maltotriose or maltotetraose (column 3, lines 50-65). Schneider et al. further teach the use of these oxidases and substrates as components of laundry detergents to produce hydrogen peroxide (column 20, lines 25-40).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the methods of Baeck et al. by incorporating the desizing,

pre-scouring and post bleaching alkaline method steps because Sando et al. teach the importance of these steps in refining and bleaching cellulosic textiles.

It would have been further obvious to one of ordinary skill in the art to derive the claimed carbohydrate oxidase from a strain of Microdochium nivale or fungal sources, since Schneider et al. teach carbohydrate oxidase derived from Microdochium nivale and fungal sources are commonly known and of benefit in producing hydrogen peroxides in detergents. Regarding the concentrations of the carbohydrate oxidase and substrate, since the combination of these components is responsible for the concentration of hydrogen peroxide produced and in turn the hydrogen peroxide concentration is responsible for the level of bleaching of the fabric, it would have been obvious that optimization of the oxidase and substrate amounts would allow production of the desired bleaching effect.

Response to Arguments

9. Applicant's arguments filed regarding Baeck in view of Sando and Schneider have been fully considered but they are not persuasive. The applicant argues that Schneider et al. do not teach a method for manufacturing a textile and are rather directed only towards baking. The examiner respectfully disagrees. Schneider et al. clealry teach the use of the instantly claimed carbohydrate oxidases and substrates as components of laundry detergents to produce hydrogen peroxide (column 20, lines 25-40). Accordingly, the rejections are maintained.

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Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to AMINA KHAN whose telephone number is (571)272-

5573. The examiner can normally be reached on Monday through Friday, 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Vasu Jagannathan can be reached on (571) 272-1119. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Lorna M Douyon/
Primary Examiner Art Un

Primary Examiner, Art Unit 1796

/Amina Khan/ Examiner, Art Unit 1796

August 13, 2009